

## **INSULATION JUST GOT BETTER**

# ArmaGel HTL

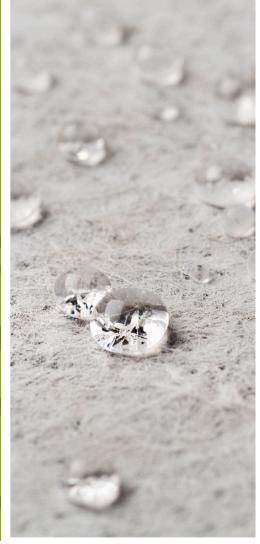
Flexible aerogel blanket for hightemperature applications

// ASTM C1728 Compliant

- // Non-combustible in accordance with ISO EN 1182 [A1]
- // Excellent protection against corrosion under insulation
  (CUI)
- // Hydrophobic and breathable
- // More choice: 5, 10 and 20 mm thicknesses









#### **TECHNICAL DATA - ARMAGEL HTL**

Max. 3 years

Shelf life<sup>2</sup>

Brief description

ArmaGel HTL is a flexible aerogel insulation blanket suitable for high-temperature insulation applications up to 650°C (1200°F). ArmaGel HTL is compliant with ASTM C1728, Type V, Grade 1A.

	ArmaGet HTL is compliant with ASTM C1728, Type V, Grade TA.							
Material type	Aerogel blanket.	Aerogel blanket.						
Product colour range	Light grey							
Special features	ArmaGel HTL is a highly flexible aerogel insulation blanket. It is hydrophobic and breathable providing the best-in-class corrosion under insulation (CUI) protection.							
Product range	Sheets in rolls, 5, 10 and 20 mm (0.2, 0.4 and 0.8 in) thickness and width of 1.5 m (59 in). For further details, please refer to the product range tables at the end of this document.							
Applications	Thermal insulation/	- Thermal insulation/protection of pipes, vessels, equipment, fittings and etc. in industrial and process facilities.						
Installation	For industrial applications it is recommended to consult the relevant Armacell application manual(s). For further information please contact our Technical Services.							
Property	Value / Assessmer	Standard / Test method						
Temperature range								
Service temperature <sup>1</sup>	Max. °C		Ma	x. °F		ASTM C447, ASTM C411		
	650	650 1,200						
Thermal conductivity								
Declared thermal conductivity	θm	24°C (75°F)	100°C (212°F)	200°C (392°F)	300°C (572°F)	ASTM C177		
	$\lambda d \leq [W/(m \cdot K)]$	0.029	0.039	0.049	0.061	-		
	k ≤ [Btu-in/(h-ft²-°F]	]] 0.20	0.27	0.34	0.42	-		
Fire Performance and Approval	s							
Reaction to fire	A1 Non-combustible					ISO 1182, EN 13501-1		
Surface burning characteristics		Flame spread index < 5 Smoke developed index < 10						
Fire performance								
Toxicity	Passed					KS F 2271		
Resistance to water								
Hydrophobic	Yes	Yes						
Water absorption	≤ 8% by weight	< 8% by weight						
Corrosion mitigation								
Stress corrosion cracking	Passed	Passed						
Physical attributes								
Nominal density	150 kg/m³ (9.5 lb/ft³)	ASTM C303, KS L 9102						
Weather and UV resistance								
Weather resistance	In all industrial appli metal jacketing or pr Services for guidance made for each jacket							
Health and environment						_		
Fungal growth	No growth / Rating 0	ASTM C1338, ASTM G21						
Health aspects	Neutral							
Other technical features	_							

Storage

Material shall be stored indoors, in clean and dry conditions, away from direct sunlight.

<sup>1</sup> For use in temperatures beyond the published value, please contact Technical Services.

<sup>2</sup>Shelf life (maximum storage time) is limited to ensure that only currently manufactured products are installed on projects. This limitation is restricted solely to storage of the product and does not affect the lifetime of product after it has been installed.

#### Roll - jumbo

ltem	Thickness [mm]	Thickness [Inch]	Width (m)	Width [inch]	Length [m]	Length [ft]	Content [metric]	Content [imperial]		
AGL-05-00/150J	5	0.2	1.5	59	80	262.5	120 m <sup>2</sup>	1291.7 ft <sup>2</sup>		
AGL-10-00/150J	10	0.4	1.5	59	48	157.5	72 m <sup>2</sup>	775 ft²		
AGL-20-00/150J	20	0.8	1.5	59	24	78.7	36 m <sup>2</sup>	387.5 ft <sup>2</sup>		
Other information	- 									
10 mm (0.4		10 mm (0.4 in) nor	mm (0.2 in) nominal thickness: ± 1 mm ) mm (0.4 in) nominal thickness: ± 2.5 mm ) mm (0.8 in) nominal thickness: ± 4 mm							
Length tolerance ± 5 %										
Length tolerance										

ltem	Thickness [mm]	Thickness [Inch]	Width (m)	Width [inch]	Length [m]	Length [ft]	Content [metric]	Content [imperial]	
AGL-05-00/150S	5	0.2	1.5	59	16	52.5	24 m <sup>2</sup>	258.3 ft <sup>2</sup>	
AGL-10-00/150S	10	0.4	1.5	59	8	26.2	12 m <sup>2</sup>	129.2 ft <sup>2</sup>	
AGL-20-00/150S	20	0.8	1.5	59	4	13.1	6 m <sup>2</sup>	64.6 ft <sup>2</sup>	
Other information	 I								
Thickness tolerance		5 mm (0.2 in) nominal thickness: ± 1 mm 10 mm (0.4 in) nominal thickness: ± 2.5 mm 20 mm (0.8 in) nominal thickness: ± 4 mm							
Length tolerance ±		± 5 %							
Width tolerance ± 3 %									

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### ABOUT ARMACELL

As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,300 employees and 25 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.



For more information, please visit: www.armacell.com